

Scott Sikorski

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<https://sgsikorski.github.io>

Education

University of Rochester, *BS Computer Science*

Conferred 2023

University of Virginia, *MS Computer Science*

Expected 2025

Graduate Coursework: *Software Analysis and Improvement, Learning for Interactive Robots, Software Engineering for Machine Learning, Machine Learning, Computer Architecture*

Work Experience

Garmin

Summer 2022 & 2023

Embedded Systems Software Engineer Intern

- Agile development and maintenance of high-level software across shared C/C++ codebase
- Built new activities and improved existing activities by creating and linking core activity submodule logic to user experience
- Built unit image tests for page transition animations and native watch faces to verify UI
- Help update and condense various graphical widget logic for new UI/UX features

University of Rochester and UR LLE Energetics research group

June 2021 - May 2023

Parallel Processing & GPU Computation Research under Dr. Adam Sefkow

- Contributed to group's open-source parallel 3D particle-based physics simulation C++ framework
- Built [Quiet Direct Simulation](#) using CUDA for NVIDIA GPU for fast, low-noise fluid simulation

Projects

Machine Independent Optimized C Compiler

Fall 2021 & Spring 2022

- Scanner and parser with syntax errors and semantic error recovery with AST generation in C++
- Optimized 3 address code generation iterative using data flow analysis in Python3
- Register allocation using live ranges that adds memory allocation instructions to 3 address code

Leadership Experience

Cross Country/Track and Field Team Captain

Fall 2021, 2022, Spring 2023

Software Analysis and Improvement TA

Spring 2023

Technical Tools

Proficient in C++, C, CUDA, Python3, Kotlin, Swift, Rust, Java, Javascript

Proficient with Git, Jenkins, NumPy, Flask, TensorFlow, Keras, MongoDB, SQL/SQLite, React, Docker

Native English Speaker, Limited French Fluency